

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

OFFICE ENGINEER

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www.dot.ca.gov/hq/esc/oe



*Serious Drought.  
Help save water!*

February 4, 2015

04-Mrn,Son-101-26.8/27.6, 0.0/2.0

04-264094

Project ID 0400000735

ACNHP-Q101(261) N

HPLU21L-6204(120) N

Addendum No. 3

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN MARIN AND SONOMA COUNTIES NEAR PETALUMA FROM 0.8 MILE SOUTH TO 2.0 MILES NORTH OF THE MARIN-SONOMA COUNTY LINE.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on Thursday, March 5, 2015, instead of the original date of Wednesday, February 11, 2015.

This addendum is being issued to set a new bid opening date as shown herein and revise the project plans, the *Notice to Bidders and Special Provisions*, the *Bid book*, *Information Handout*.

Project plan sheets 1, 2, 21, 22, 23, 24, 25, 26, 27, 28 29, 30, 31, 74, 103, 106, 107, 108, 122, 129, 130, 131, 169, 170, 179, 217, 243, 247, 248, 284, 357, 531, 532, 534, 535, 536, 558, 676, 677, 702 and 703 are replaced and attached for substitution for the like-numbered sheets.

Project plan sheets 605A, 647A, 652A, 652B, 652C, 675A, 703A and 703B are added and attached for addition to the project plans.

In the *Notice to Bidders and Special Provisions*, in the "STANDARD PLANS LIST," the following Standard Plans are added as follows:

"A78F1, A78F2."

In the *Notice to Bidders*, the twelfth paragraph is replaced as follows:

"Complete the work within 420 working days."

In the *Special Provisions*, Section 1-1.01, is replaced as attached.

In the *Special Provisions*, Section 2 BIDDING, 2-1.06B Supplemental Project Information, is replaced as attached.

In the *Special Provisions*, Section 8-1.04C, is replaced as attached.

In the *Special Provisions*, Section 12-4.05B, is replaced as attached.

In the *Special Provisions*, Section 13-3, is replaced as attached.

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In the Special Provisions, Section 13-12.01B(1), the second item of the first paragraph is replaced as follows:

"2. Calculations supporting the sizing of any piping or other conveyance. The conveyance pipe through the job-site must be sized for a flow rate of 250 cfs"

In the Special Provisions, Section 19-12, is replaced as attached.

In the Special Provisions, Section 75-1.03D(1), the first paragraph is replaced as follows:

"Bridge deck drainage system consists of:

1. Drain pipes
2. Expansion couplings
3. Pipe hangers
4. Casings

In the Special Provisions, Section 83-1.02G(2), is added as attached.

In the Special Provisions, Section 83-2.02D(1), is added as attached.

The *Information Handout* is replaced as attached.

In the *Bid* book, in the "Bid Item List," Items 31, 32, 116, 122, 126, 145, 149, 169, 171, 189 are replaced.

In the *Bid* book, in the "Bid Item List," Items 220, 221, 222, and 223 are added.

In the *Bid* book, in the "Bid Item List," Items 85, 190, 219 are deleted.

To *Bid* book holders:

Inquiries or questions in regard to this addendum must be communicated as a bidder inquiry and must be made as noted in the *Notice to Bidders* section of the *Notice to Bidders and Special Provisions*.

Submit the *Bid* book as described in the *Electronic Bidding Guide* at the Bidders' Exchange website.

**[http://www.dot.ca.gov/hq/esc/oe/electronic\\_bidding/electronic\\_bidding.html](http://www.dot.ca.gov/hq/esc/oe/electronic_bidding/electronic_bidding.html)**

Inform subcontractors and suppliers as necessary.

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This addendum, EBS addendum file, attachments and the modified wage rates are available for the Contractors' download on the Web site:

**[http://www.dot.ca.gov/hq/esc/oe/project\\_ads\\_addenda/04/04-264094](http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/04/04-264094)**

If you are not a *Bid* book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,

  
BIJAN SARTIPI  
District Director

Attachments

## DIVISION I GENERAL PROVISIONS

### 1 GENERAL

Add to section 1-1.01:

#### Bid Items and Applicable Sections

Item code	Item description	Applicable section
028279	Temporary Creek Diversion System	13
028280	Temporary Construction Entrance (Construction Staging Pads)	13
028281	Remove Pipe (30" steel NMWD)	15
028282	Remove Concrete Wingwall (CY)	15
028283	Remove Sacked Concrete Slope Protection	15
028284	Settlement and Monitoring	19
028625	Aggregate Piers	19
028286	Imported Biofiltration Soil	21
028287	4" Corrugated High Density Polyethylene Pipe Conduit	20
028288	Place Hot Mix Asphalt Dike (Type C) (Modified)	39
028289	Place Hot Mix Asphalt Dike (Type D) (Modified)	39
028290	Place Hot Mix Asphalt Dike (Type F) (Modified)	39
044800	78" Permanent Steel Casing	49
044801	Bat Habitat	57
028291	24" Double Caged Reinforced Concrete Pipe	65
028292	24" Perforated Plastic Pipe Underdrain	68
028293	8" Plastic Pipe Underdrain Riser	68
028294	8" Non Perforated Plastic Pipe Underdrain	68
028295	Temporary Access Pad	70
044802	30"Welded Steel Pipe Casing (Bridge)	70
028626	Tubular Bicycle Railing	83
028627	Concrete Barrier (Transition)	83
028297	Type SCI 100GM Crash Cushion	83
044803	Concrete Barrier (Type 736A Modified)	83
028298	6" Thermoplastic Traffic Stripe (Broken 9-3)	84

028299	4" Thermoplastic Traffic Stripe (Broken 34"-14")	84
028300	Traffic Operations System (Stage Construction)	86
028301	Traffic Operations System (Location 1)	86
028302	Traffic Operations System (Location 2)	86
028303	Traffic Operations System (Location 3)	86
028304	Traffic Operations System (Location 4)	86
028305	Traffic Operations System (Location 5)	86
028306	Traffic Operations System (Location 6)	86

CONTRACT NO. 04-264094  
REPLACED PER ADDENDUM NO. 3 DATED FEBRUARY 4, 2015

**Add to section 2-1.06B:**

The Department makes the following supplemental project information available:

**Supplemental Project Information**

Means	Description
Included in the <i>Information Handout</i>	<ol style="list-style-type: none"> <li>1. Foundation Report for San Antonio Creek Bridge dated September 9, 2013</li> <li>2. Final Hydraulic Report for San Antonio Creek dated February 10, 2011</li> <li>3. Addendum to the Final Hydraulic Report dated March 9, 2011</li> <li>4. Improvement Plans for North Marin Water District North Marin Aqueduct Relocation/Aqueduct energy Efficiency Project - Reaches A, B, C, D/MSN B3</li> <li>5. National Oceanic and Atmospheric Administration/National Marine Fisheries Service Biological Opinion</li> <li>6. United States Fish and Wildlife Service, Biological Opinion</li> <li>7. California Department of Fish and Wildlife, Lake and Streambed Alteration Agreement (1602)</li> <li>8. United States Army Corp of Engineers, Nationwide 404 Permit</li> </ol>
	<ol style="list-style-type: none"> <li>9. Regional Water Quality Control Board, Water Quality 401 Certification</li> <li>10. Underground Classifications (Tunnels)</li> <li>11. Water Source Information for North Marin Water District</li> <li>12. Site Investigation Report dated March 20, 2012</li> <li>13. Encroachment Permits</li> <li>14. Conceptual Storm Water Pollution Prevention Plan</li> </ol>
Available as specified in the <i>Standard Specifications</i>	<ol style="list-style-type: none"> <li>1. Bridge as-built drawings</li> <li>2. Cross Sections</li> </ol>
Included with the project plans	Logs of Test Borings
Available for inspection at the Transportation Laboratory Telephone no. (916) 227-7287	Rock Cores

**Replace "Reserved" in section 8-1.04C with:**

Section 8-1.04B does not apply.

Start job site activities within 15 days after receiving notice that the Contract has been approved by the Attorney General or the attorney appointed and authorized to represent the Department. Do not start job site activities until the Department authorizes or accepts your submittal for:

1. CPM baseline schedule
2. Signed Conceptual Storm Water Pollution Prevention Plan (CSWPPP)
3. Notification of DRA or DRB nominee and disclosure statement
4. Contingency plan for opening closures to public traffic

You may enter the job site only to measure controlling field dimensions and locate utilities.

Do not start other job site activities until all the submittals from the above list are authorized or accepted and the following information is received by the Engineer:

1. *Notice of Materials To Be Used* form.
  2. Written statement from the vendor that the order for the sign panels has been received and accepted by the vendor. The statement must show the dates that the materials will be shipped.
  3. Written statement from the vendor that the order for electrical material has been received and accepted by the vendor. The statement must show the dates that the materials will be shipped.
  4. Written statement from the vendor that the order for structural steel has been received and accepted by the vendor. The statement must show the dates that the materials will be shipped.
- 

You may start job site activities before the 15th day after Contract approval if you:

1. Obtain specified authorization or acceptance for each submittal before the 15th day
2. Receive authorization to start

Submit a notice 72 hours before starting job site activities. If the project has more than 1 location of work, submit a separate notice for each location.

Replace "Reserved" in section 12-4.05B with:

Chart no. 1 Freeway/Expressway Lane Requirements																								
County: Marin / Sonoma							Route/Direction:101 Northbound							PM:27.0/27.6 - 0.0/1.9										
Closure limits: San Antonio Road to Kastania Road																								
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Mon-Thu	1	1	1	1	1	1																		1
Fri	1	1	1	1	1	1																		
Sat	1	1	1	1	1	1	1																	1
Sun	1	1	1	1	1	1	1	1																1
Legend:																								
1	Provide at least 1 through freeway lane open in direction of travel																							
	Work allowed within the highway where shoulder or lane closure is not required																							

Chart no. 2 Freeway/Expressway Lane Requirements																								
County: Marin / Sonoma								Route/Direction:101 Southbound								PM:1.9/0.0 - 27.6/27.0								
Closure limits: Kastania Road to San Antonio Road																								
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Mon- Thu	1	1	1	1																		1	1	1
Fri	1	1	1	1																			1	1
Sat	1	1	1	1	1	1	1																1	1
Sun	1	1	1	1	1	1	1	1															1	1
Legend:																								
1	Provide at least 1 through freeway lane open in direction of travel																							
	Work allowed within the highway where shoulder or lane closure is not required																							



**Add to section 13-3.01A:**

A *Conceptual Storm Water Pollution Prevention Plan* (CSWPPP) has been prepared to cover the work to be performed outside San Antonio creek in the first 55 days after receiving notice of Contract Approval, and is available in the *Information Handout*.

Comply with the CSWPPP for all construction activities until your SWPPP is authorized.

The authorized SWPPP supersedes the *Conceptual* SWPPP.

**Replace section 13-3.01B(1) with:**

**13-3.01B(1) General**

Provide the "Certification" included in the CSWPPP with all the required signatures and submit to the Engineer within 10 days of Contract approval. If amendment to the CSWPPP is necessary, submit amendment to the Engineer within 5 days of Contract approval. Do not start construction until your amendment is authorized.

**Add to section 19:**  
**19-12 AGGREGATE PIERS**

**19-12.01 GENERAL**

**19-12.01A Summary**

Section 19-12 includes specifications for constructing aggregate piers for ground improvement.

Complete work before constructing embankment and bridge abutment.

**19-12.01B Definitions**

**aggregate pier:** A column of compacted aggregate used to reinforce the ground.

**down-hole vibrator:** A high-energy vibrator lowered to the necessary depth by extension tubes.

**bottom-feed vibrator:** Down-hole vibrator that is equipped with a tremie pipe used to form a hole and to feed the aggregate to the tip of the vibrator.

**displacement pipe mandrel:** Hollow shaft equipped with beveled head and aggregate delivery system.

**19-12.01C Submittals**

**19-12.01C(1) General**

At least 10 working days before starting work, submit:

1. Shop drawings showing piers layout, diameter and depth, number of each pier in construction sequence
2. Specifications of pier construction equipment
3. Detailed drawings of the modulus test setup and test procedure description
4. Access grading plan including temporary water pollution and erosion control items
5. Anticipated maximum and average nonstormwater discharge
6. Aggregate sample for testing or test results from certified laboratory

**19-12.01C(2) Quality Control and Assurance Submittals**

At least 10 working days before starting work, submit a list of on-site supervisory personnel and equipment operators. The list must contain a summary of each individual's qualifications and a statement of the previous work experience.

Statement of the previous work experience for each person on the list must include:

1. At least 5 successful aggregate piers projects within the past 3 years
2. A written description of each project, contract number, owner's name and contact information, the dates and the extent of the work, and the manner of execution
3. Additional information of the personnel's ability to perform the work

Submit modulus test results under section 19-12.01D(1).

Submit copies of all the field records under section 19-12.03B for the aggregate piers completed on the previous day.

**19-12.01D Quality Control and Assurance**

**19-12.01D(1) Test Piers**

**19-12.01D(1)(a) General**

Construct 3 of the production aggregate piers at the locations determined by the Engineer as test piers.

Perform modulus test and submit the results. The Engineer will authorize the aggregate lift thickness, compaction time, and schedule for other production piers based on the test results.

Do not proceed with other production piers until authorized.

#### **19-12.01D(1)(b) Modulus Test**

Perform aggregate pier modulus test by applying vertical load to and measuring settlements at the top and bottom of the completed pier. Measure settlement at the bottom of the pier using a telltale.

Establish load increments, duration and load decrements under ASTM D 1143. Maximum test load is 150 percent of the design load of 59 kips. Ensure that no part of the load is applied directly to the adjacent soil.

Apply a seating load equal to 5 percent of design load before applying load increments.

Settlement at the top of the test pier must not exceed the following values:

Percent of Design Load	Maximum Settlement, inch
100	0.75
150	2.0

Settlement at the bottom of the pier must not exceed 30 percent of that at the top at 100 percent of design load.

If the settlements exceed specified values, adjust means and methods, construct and retest an additional test pier at the location determined by the Engineer.

#### **19-12.01D(2) Department Acceptance**

The Department accepts aggregate piers based on:

1. Compliance of the test pier with the modulus test acceptance criteria
2. Compliance with the aggregate and equipment requirements
3. Review of the field record

#### **19-12.02 MATERIALS**

##### **19-12.02A Aggregate**

The aggregate must:

1. Be hard, durable, angular, clean crushed rock, free from clay lumps, cementation, organic material, and other deleterious substances
2. Have a Durability Index at least 40 under California Test 229
3. Comply with the following gradation under ASTM D 422:

Sieve size	Percent passing
3"	100
1-1/2"	90 - 100
1"	80 - 100
3/4"	0 - 85

##### **19-12.02B Equipment**

If displacement pipe mandrel is used, it must be driven by 75 to 150 tons hydraulic vibratory pile hammer with a minimum frequency of 25 Hz. Apply at least 15 tons of constant vertical downward (crowd) force to the pile hammer and mandrel.

If either down-hole or bottom-feed vibrator is used, it must:

1. Have energy rating of at least 80 Hp
2. Produce centrifugal force of 15 tons, minimum
3. Have a metering device, such as an ammeter, allowing constant amperage monitoring during aggregate compaction operation

### **19-12.03 CONSTRUCTION**

#### **19-12.03A General**

Construct aggregate piers by one of the following methods:

1. Impact Pier System, a proprietary method developed by Farell Design-Build Companies, Inc., 685 Placerville Dr., Placerville, CA 95667. A displacement pipe mandrel is used to form a hole, deliver and compact aggregate in lifts by vibro-ramming
2. Pre-drilling a hole and compacting aggregate in lifts by down-hole vibrator
3. Forming a hole and compacting aggregate in lifts by bottom-feed vibrator

Anticipate difficult aggregate pier construction due to the presence of blocks of hard rock in a soft clay matrix and the presence of high groundwater. Subsurface strata may contain rubble, concrete, abandoned foundations, utilities, and other materials. Pre-drilling may be required.

The diameter of the pier at any depth must be at least 30 inches.

If displacement pipe mandrel is used, the thickness of each aggregate lift before compacting must not exceed 16 inches.

If either down-hole or bottom-feed vibrator is used, the quantity of the aggregate in each lift must allow vibrator tip to advance within 12 inches of the bottom of the lift.

Exercise care to prevent soil from caving in during aggregate placement and compaction in pre-drilled holes. Replace contaminated aggregate lift if cave-in occurs and the volume of soil is greater than 10 percent of the lift volume.

Pier placement must comply with the following maximum tolerances:

1. Horizontal deviation from the pier grid: 4 inches
2. Vertical deviation: 2 inches for 10 feet of pier height

#### **19-12.03B Field Records**

Maintain the following field records for each aggregate pier:

1. Identification and location
2. Date and time of completion
3. Pier length and drilled diameter
4. Average lift thickness
5. Aggregate quantity per linear foot
6. Type and size of equipment used
7. Depth of groundwater and any unusual conditions encountered

#### **19-12.03C Site Cleanup**

Backfill holes, collapsed areas and depressions with compacted earth material from the excavation. Remove heaving if occurs. Restore the site to the pre-construction grades.

Dispose of all deleterious materials, including silt, organic material, sediment, disturbed materials, and construction debris.

### **19-12.04 PAYMENT**

The Department does not pay for additional test pier, unless the Engineer orders changes in test pier diameter or depth.

**Replace the 1st paragraph of section 83-1.02G(2) with:**

Tubular metal railing includes tubular bicycle railing and tubular handrailing.

**Add to section 83-1.02G(2):**

Submit shop drawings for the tubular bicycle railing and include:

1. Railing layout
2. Details for venting holes in rails, posts, and sleeves
3. Sequence and methods for shop assembly, field assembly, and installation

**Replace the paragraph in the RSS for section 83-2.02D(1) with:**

For concrete barrier transition:

1. Remove portions of the existing concrete barrier where shown under section 15-3
2. Roughen the contact surface of the existing concrete barrier
3. Drill and bond dowels into the existing concrete barrier under section 51-1
4. Roughen the contact surfaces of the existing wingwalls
5. Drill and bond dowels into the existing wingwalls

**BID ITEM LIST**  
**04-264094**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21	130505	MOVE-IN/MOVE-OUT (TEMPORARY EROSION CONTROL)	EA	13		
22	130530	TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)	SQYD	38,900		
23	130570	TEMPORARY COVER	SQYD	9,600		
24	130610	TEMPORARY CHECK DAM	LF	8,310		
25	130620	TEMPORARY DRAINAGE INLET PROTECTION	EA	180		
26	130640	TEMPORARY FIBER ROLL	LF	27,400		
27	130680	TEMPORARY SILT FENCE	LF	62,800		
28	130710	TEMPORARY CONSTRUCTION ENTRANCE	EA	16		
29	028280	TEMPORARY CONSTRUCTION ENTRANCE (CONSTRUCTION STAGING PADS)	LS	LUMP SUM	LUMP SUM	
30	130900	TEMPORARY CONCRETE WASHOUT	LS	LUMP SUM	LUMP SUM	
31	131103	WATER QUALITY SAMPLING AND ANALYSIS DAY	EA	85		
32	131104	WATER QUALITY MONITORING REPORT	EA	4		
33	141000	TEMPORARY FENCE (TYPE ESA)	LF	17,900		
34	141001	HEALTH AND SAFETY PLAN	LS	LUMP SUM	LUMP SUM	
35	141103	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	LF	28,800		
36	141109	ADL BURIAL LOCATION REPORT	LS	LUMP SUM	LUMP SUM	
37	141120	TREATED WOOD WASTE	LB	234,000		
38	150203	ABANDON CULVERT (EA)	EA	1		
39	150204	ABANDON CULVERT (LF)	LF	79		
40	150230	DESTROY WELL	EA	1		

**BID ITEM LIST**  
**04-264094**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
81 (F)	193003	STRUCTURE BACKFILL (BRIDGE)	CY	2,495		
82 (F)	193013	STRUCTURE BACKFILL (RETAINING WALL)	CY	3,890		
83 (F)	193031	PERVIOUS BACKFILL MATERIAL (RETAINING WALL)	CY	65		
84	194001	DITCH EXCAVATION	CY	2,310		
85	BLANK					
86	200002	ROADSIDE CLEARING	LS	LUMP SUM	LUMP SUM	
87	028286	IMPORTED BIOFILTRATION SOIL	CY	2,600		
88	208600	3" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	LF	2,400		
89	028287	4" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	LF	700		
90	208738	8" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	LF	700		
91	210010	MOVE-IN/MOVE-OUT (EROSION CONTROL)	EA	6		
92	210270	ROLLED EROSION CONTROL PRODUCT (NETTING)	SQFT	78,400		
93	210300	HYDROMULCH	SQFT	1,290,000		
94	210350	FIBER ROLLS	LF	87,900		
95	210430	HYDROSEED	SQFT	1,290,000		
96	210600	COMPOST	SQFT	1,210,000		
97	210630	INCORPORATE MATERIALS	SQFT	1,210,000		
98	250401	CLASS 4 AGGREGATE SUBBASE	CY	71,200		
99	260203	CLASS 2 AGGREGATE BASE (CY)	CY	7,400		
100	280000	LEAN CONCRETE BASE	CY	37,100		



**BID ITEM LIST**  
**04-264094**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
101	374207	CRACK TREATMENT	LNMI	1		
102	390095	REPLACE ASPHALT CONCRETE SURFACING	CY	36		
103	390100	PRIME COAT	TON	150		
104	390132	HOT MIX ASPHALT (TYPE A)	TON	83,700		
105	390137	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	16,200		
106	390401	HOT MIX ASPHALT-OPEN GRADED (OPEN GRADED FRICTION COURSE)	TON	10,800		
107	394060	DATA CORE	LS	LUMP SUM	LUMP SUM	
108	394090	PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA)	SQYD	5,120		
109	028288	PLACE HOT ASPHALT DIKE (TYPE C) MODIFIED	LF	690		
110	028289	PLACE HOT ASPHALT DIKE (TYPE D) MODIFIED	LF	14,900		
111	028290	PLACE HOT ASPHALT DIKE (TYPE F) MODIFIED	LF	7,430		
112	397005	TACK COAT	TON	130		
113	044800	78" PERMANENT STEEL CASING	LF	80		
114	490614	78" CAST-IN-DRILLED-HOLE CONCRETE PILING	LF	927		
115	490782	FURNISH PILING (CLASS 200) (ALTERNATIVE W)	LF	4,040		
116	490783	DRIVE PILE (CLASS 200) (ALTERNATIVE W)	EA	124		
117	490801	STEEL SHEET PILING	SQFT	3,170		
118	498052	60" CAST-IN-DRILLED-HOLE CONCRETE PILE (SIGN FOUNDATION)	LF	47		
119	500001	PRESTRESSING CAST-IN-PLACE CONCRETE	LS	LUMP SUM	LUMP SUM	
120 (F)	510051	STRUCTURAL CONCRETE, BRIDGE FOOTING	CY	281		

**BID ITEM LIST**  
**04-264094**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
121 (F)	510053	STRUCTURAL CONCRETE, BRIDGE	CY	5,625		
122 (F)	510060	STRUCTURAL CONCRETE, RETAINING WALL	CY	1,340		
123 (F)	510086	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	CY	272		
124 (F)	510090	STRUCTURAL CONCRETE, BOX CULVERT	CY	8		
125 (F)	510092	STRUCTURAL CONCRETE, HEADWALL	CY	10		
126 (F)	510502	MINOR CONCRETE (MINOR STRUCTURE)	CY	489		
127 (F)	511035	ARCHITECTURAL TREATMENT	SQFT	860		
128	519095	JOINT SEAL ASSEMBLY (MR 4")	LF	245		
129 (F)	520101	BAR REINFORCING STEEL	LB	1,988		
130 (F)	520102	BAR REINFORCING STEEL (BRIDGE)	LB	1,775,900		
131 (F)	520103	BAR REINFORCING STEEL (RETAINING WALL)	LB	138,220		
132 (F)	560218	FURNISH SIGN STRUCTURE (TRUSS)	LB	31,704		
133 (F)	560219	INSTALL SIGN STRUCTURE (TRUSS)	LB	31,704		
134	560233	FURNISH FORMED PANEL SIGN (OVERHEAD)	SQFT	280		
135	560246	FURNISH LAMINATED PANEL SIGN (2 1/2"-TYPE B)	SQFT	460		
136	560248	FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED)	SQFT	220		
137	560249	FURNISH SINGLE SHEET ALUMINUM SIGN (0.080"-UNFRAMED)	SQFT	85		
138	560251	FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-FRAMED)	SQFT	13		
139	566011	ROADSIDE SIGN - ONE POST	EA	68		
140	566012	ROADSIDE SIGN - TWO POST	EA	1		

**BID ITEM LIST**  
**04-264094**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
141	568023	INSTALL ROADSIDE SIGN (LAMINATED WOOD BOX POST)	EA	2		
142 (F)	044801	BAT HABITAT	LS	LUMP SUM	LUMP SUM	
143	597600	PREPARE AND PAINT CONCRETE	SQFT	15		
144	620100	18" ALTERNATIVE PIPE CULVERT	LF	3,690		
145	620140	24" ALTERNATIVE PIPE CULVERT	LF	9,530		
146	620220	36" ALTERNATIVE PIPE CULVERT	LF	390		
147	620260	42" ALTERNATIVE PIPE CULVERT	LF	1,090		
148	650014	18" REINFORCED CONCRETE PIPE	LF	310		
149	650018	24" REINFORCED CONCRETE PIPE	LF	520		
150	650022	30" REINFORCED CONCRETE PIPE	LF	940		
151	650026	36" REINFORCED CONCRETE PIPE	LF	870		
152	650050	72" REINFORCED CONCRETE PIPE	LF	490		
153	028291	24" DOUBLE CAGED REINFORCED CONCRETE PIPE	LF	960		
154	665016	18" CORRUGATED STEEL PIPE (.064" THICK)	LF	570		
155	665022	24" CORRUGATED STEEL PIPE (.064" THICK)	LF	690		
156	665716	18" SLOTTED CORRUGATED STEEL PIPE (.064" THICK)	LF	3,650		
157	680905	8" PERFORATED PLASTIC PIPE UNDERDRAIN	LF	9,020		
158	028292	24" PERFORATED PLASTIC PIPE UNDERDRAIN	LF	780		
159	028293	8" PLASTIC PIPE UNDERDRAIN RISER	EA	20		
160	028294	8" NON PERFORATED PLASTIC PIPE UNDERDRAIN	LF	110		

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Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
161 (F)	682049	CLASS 3 PERMEABLE MATERIAL (BLANKET)	CY	16,678		
162	028295	TEMPORARY ACCESS PAD	LS	LUMP SUM	LUMP SUM	
163 (F)	044802	30" WELDED STEEL PIPE CASING (BRIDGE)	LF	155		
164	705311	18" ALTERNATIVE FLARED END SECTION	EA	16		
165	705315	24" ALTERNATIVE FLARED END SECTION	EA	5		
166	705319	30" ALTERNATIVE FLARED END SECTION	EA	4		
167	705321	36" ALTERNATIVE FLARED END SECTION	EA	5		
168	705333	72" ALTERNATIVE FLARED END SECTION	EA	2		
169 (F)	721015	ROCK SLOPE PROTECTION (LIGHT, METHOD B) (CY)	CY	126		
170	721420	CONCRETE (DITCH LINING)	CY	540		
171	729011	ROCK SLOPE PROTECTION FABRIC (CLASS 8)	SQYD	400		
172	730045	MINOR CONCRETE (GUTTER) (CY)	CY	21		
173	730070	DETECTABLE WARNING SURFACE	SQFT	74		
174	731507	MINOR CONCRETE (GUTTER DEPRESSION)	CY	40		
175 (F)	750001	MISCELLANEOUS IRON AND STEEL	LB	60,333		
176	750020	RIGID RAIL FALL PROTECTION SYSTEM	EA	5		
177 (F)	750041	ISOLATION CASING	LB	15,995		
178 (F)	750505	BRIDGE DECK DRAINAGE SYSTEM	LB	23,790		
179	800320	CHAIN LINK FENCE (TYPE CL-4)	LF	1,930		
180	800360	CHAIN LINK FENCE (TYPE CL-6)	LF	24,500		

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Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
181	802620	16' CHAIN LINK GATE (TYPE CL-6)	EA	2		
182	820107	DELINEATOR (CLASS 1)	EA	18		
183	820118	GUARD RAILING DELINEATOR	EA	130		
184	820134	OBJECT MARKER (TYPE P)	EA	19		
185	820151	OBJECT MARKER (TYPE L-1)	EA	15		
186	832015	MIDWEST GUARDRAIL SYSTEM (7" WOOD POST)	LF	9,000		
187	832070	VEGETATION CONTROL (MINOR CONCRETE)	SQYD	5,310		
188	839311	DOUBLE THRIE BEAM BARRIER (WOOD POST)	LF	2,400		
189 (F)	839521	CABLE RAILING	LF	975		
190	BLANK					
191	839543	TRANSITION RAILING (TYPE WB-31)	EA	10		
192	839581	END ANCHOR ASSEMBLY (TYPE SFT)	EA	9		
193	839584	ALTERNATIVE IN-LINE TERMINAL SYSTEM	EA	3		
194	839585	ALTERNATIVE FLARED TERMINAL SYSTEM	EA	14		
195	028297	TYPE SCI 100GM CRASH CUSHION	EA	1		
196	839699	CONCRETE BARRIER (TYPE 60P)	LF	160		
197	839701	CONCRETE BARRIER (TYPE 60)	LF	11,500		
198 (F)	839702	CONCRETE BARRIER (TYPE 60A)	LF	570		
199	839703	CONCRETE BARRIER (TYPE 60C)	LF	2,750		
200	839704	CONCRETE BARRIER (TYPE 60D)	LF	740		

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Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
201 (F)	839726	CONCRETE BARRIER (TYPE 736A)	LF	944		
202 (F)	839727	CONCRETE BARRIER (TYPE 736 MODIFIED)	LF	1,020		
203 (F)	044803	CONCRETE BARRIER (TYPE 736A) MODIFIED	LF	120		
204	840504	4" THERMOPLASTIC TRAFFIC STRIPE	LF	97,600		
205	840505	6" THERMOPLASTIC TRAFFIC STRIPE	LF	710		
206	028298	6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 9-3)	LF	530		
207	840515	THERMOPLASTIC PAVEMENT MARKING	SQFT	11,700		
208	028299	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 34"-14")	LF	29,800		
209	850101	PAVEMENT MARKER (NON-REFLECTIVE)	EA	2,500		
210	850111	PAVEMENT MARKER (RETROREFLECTIVE)	EA	2,050		
211	860090	MAINTAINING EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS DURING CONSTRUCTION	LS	LUMP SUM	LUMP SUM	
212	028300	TRAFFIC OPERATIONS SYSTEM ( STAGE CONSTRUCTION)	LS	LUMP SUM	LUMP SUM	
213	028301	TRAFFIC OPERATIONS SYSTEM (LOCATION 1)	LS	LUMP SUM	LUMP SUM	
214	028302	TRAFFIC OPERATIONS SYSTEM (LOCATION 2)	LS	LUMP SUM	LUMP SUM	
215	028303	TRAFFIC OPERATIONS SYSTEM (LOCATION 3)	LS	LUMP SUM	LUMP SUM	
216	028304	TRAFFIC OPERATIONS SYSTEM (LOCATION 4)	LS	LUMP SUM	LUMP SUM	
217	028305	TRAFFIC OPERATIONS SYSTEM (LOCATION 5)	LS	LUMP SUM	LUMP SUM	
218	028306	TRAFFIC OPERATIONS SYSTEM (LOCATION 6)	LS	LUMP SUM	LUMP SUM	
219	BLANK					
220	028625	AGGREGATE PIERS	LS	LUMP SUM	LUMP SUM	

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Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
221	028626	TUBULAR BICYCLE RAILING	LF	252		
222	028627	CONCRETE BARRIER (TRANSITION)	LF	36		
223	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

**TOTAL BID:**

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